

The New York Academy of Sciences
2 East 63rd Street
New York, New York 10021
(212) 838-0230 ext. 324



**Functional Diversity of
Interacting Receptors**

May 25-28, 1994

Hyatt Regency Washington
On Capitol Hill
400 New Jersey Avenue, NW
Washington, D.C. 20001
Telephone (202) 737-1234
Hotel Fax (202) 737-5773



The New York Academy of Sciences

May 25-28, 1994

Functional Diversity of Interacting Receptors

Conference Chairs:

Abel Lajtha, Ph.D.
Center for Neurochemistry
Nathan S. Kline Institute
Orangeburg, New York

Leo Abood, Ph.D.
Department of Pharmacology
University of Rochester
School of Medicine and Dentistry
Rochester, New York

Location:

Hyatt Regency Washington on Capitol Hill
400 New Jersey Avenue, NW
Washington, D.C. 20001
Telephone (202) 737-1234
Hotel Fax (202) 737-5773

See back of program for registration and hotel reservation forms.

THE NEW YORK ACADEMY OF SCIENCES

The New York Academy of Sciences is an independent, not-for-profit scientific and educational organization committed both to advancing science and engineering and to applying science and technology for the public good. In its structure, the Academy is a membership organization with membership openly available to scientists, engineers, physicians, and educators, as well as to interested members of the public.

The Academy carries out its dual commitments to science and society through leadership in both developing ideas and implementing programs of action. In service to science, the Academy promotes and facilitates the exchange of information among scientists in the greater New York area and around the world. In service to society, it engages in public communication, policy analysis and debate, and science education to illuminate and improve the quality, timeliness, and reliability of contributions of science to social and economic progress.

The Academy has nearly 40,000 members in 137 countries.

ACADEMY CONFERENCES

The New York Academy of Sciences, now in its 177th year, has been at the forefront in encouraging the interactions of scientists and engineers by sponsoring conferences, workshops, and lectures. Our reputation for producing comprehensive conferences of quality is unsurpassed.

The Academy sponsors approximately twenty international meetings each year in New York and in cities all over the world. Typically, a conference will consist of an interdisciplinary examination of a single topic, have twenty to thirty speakers, include poster sessions, have a duration of three days, an attendance of 250, and produce an Annal within eight months of the conference.

ANNALS

The *Annals*, celebrating their 170th anniversary, are the major scientific publications of the Academy and comprise the proceedings of the conferences and workshops held by the Academy, as well as those of other selected scientific meetings. Containing up-to-date studies and research findings, these volumes are disseminated to more than 700 libraries of scientific, medical, and educational institutions worldwide, and are made available to Academy members, other professionals, and students. About thirty volumes of the *Annals* are published each year. For a current catalog and purchasing information, please contact the Academy at 212-838-0230, extension 341.

CONFERENCE THEME

The intent of this meeting is to contribute to a better understanding of the functional significance of neuronal receptor diversity, by addressing such topics as the genetic regulation of receptor subtypes; the functional characteristics of neurons with subtypes; second-messenger and ion-channel diversity; species and regional differences in receptor subtypes; changes occurring with age and pathologic state; and changes in receptor structure and gene expression associated with prolonged exposure to agonists and antagonists.

CONFERENCE CONTRIBUTIONS

MAJOR FUNDING PROVIDED BY

The Council for Tobacco Research-U.S.A., Inc.

CONTRIBUTORS

Abbott Laboratories
American Cyanamid Company
Fisons Pharmaceuticals
The R.W. Johnson Pharmaceutical Research Institute
The Upjohn Company

Contributions received after the printing of this program will be acknowledged in the Abstract Booklet distributed at the conference and in the Annual resulting from the conference.

ACCME CREDIT

The New York Academy of Sciences is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

The New York Academy of Sciences designates this continuing medical education activity for 23 credit hours in Category I of the Physician's Recognition Award of the American Medical Association.

CALL FOR POSTER ABSTRACTS

There will be contributed poster sessions held in conjunction with this conference. The deadline for submission of poster abstracts has been extended to **March 25, 1994**. The entire abstract, including title, author(s), and affiliations, must be typed single-spaced and contained within a rectangle that measures 5" across and 4 and $\frac{3}{8}$ " down. (Abstract form is not necessary). A cover letter should also accompany the abstract, indicating the complete mailing address of the first author.

Please send original abstracts to:

Abel Lajtha, Ph.D.
Center for Neurochemistry
Nathan S. Kline Institute
140 Old Orangeburg Road
Orangeburg, New York 10962-2210
Fax (914) 365-6107

and to:

Geraldine Busacco
Conference Director
The New York Academy of Sciences
2 East 63rd Street
New York, New York 10021
Fax (212) 838-5640

CONFERENCE SITE

The Hyatt Regency Washington is ideally located on Capitol Hill, two blocks from the U.S. Capitol, the Supreme Court, the Library of Congress and Capitol Hill's historic homes, restaurants and boutiques. The hotel is within walking distance of the National Air and Space Museum, the National Gallery of Art and many other free museums and monuments on the Mall. The Mall, Smithsonian Museums and Lincoln, Washington, Jefferson and Vietnam Veterans memorials are only minutes away.

GROUND TRANSPORTATION INFORMATION

Travel distance to the Hyatt Regency Washington

Metro Subway, Union Station:	3 blocks
Amtrak, Union Station:	3 blocks
Washington National Airport:	15 minutes
Washington-Dulles International Airport:	45 minutes
Baltimore-Washington International Airport:	45 minutes

From Washington National Airport

Taxi fare is approximately \$10.00. The hotel is also accessible via the Metro Subway System. Take the Blue-Addison Road Line to the Metro Center Stop, then transfer for the Red-Wheaton Line to the Union Station Stop.

From Washington-Dulles International Airport

Taxi fare is approximately \$37.00. Washington Flyer van service is approximately \$12.00 one way, \$20.00 round trip. Service operates every half hour. Washington Flyer ticket counters are located in the baggage claim area.

From Baltimore-Washington International Airport (BWI)

Taxi fare is approximately \$40.00 (agree on price with driver before leaving BWI). Washington Flyer van service is approximately \$15.00 one way, \$25.00 round trip. Washington Flyer ticket counters are located in the baggage claim area. BWI is also an Amtrak rail stop, in service Monday through Friday only. The fare is approximately \$10.00. For train schedules call (800) USA-RAIL or (202) 484-7540.

Wednesday
May 25, 1994

6:30 PM-8:30 PM

Registration

Regency Foyer-Ballroom Level

6:30 PM-8:30 PM

**Welcome Wine and Cheese
Reception**

Ticonderoga-Ballroom Level

Thursday
May 26, 1994

All *Scientific Sessions* will be held in the Regency Ballroom located on the Ballroom Level. *Posters* will be on display in the Regency Foyer.

7:30 AM-6:00 PM

Registration

Regency Foyer-Ballroom Level

8:45 AM-9:00 AM

Welcome Remarks

Eric J. Simon, Ph.D.

Member, Conference Committee

The New York Academy of Sciences;

Departments of Psychiatry and Pharmacology

New York University Medical Center

Abel Lajtha, Ph.D.

Conference Chair

Each paper includes 20 minutes for presentation followed by 10 minutes for discussion.

9:00 AM-10:30 AM Session I

General Principles

Session Chair:

Abel Lajtha, Ph.D.

Conference Chair

- 9:00 1. Gated-Ion Channels
Leo Abood, Ph.D.
Conference Chair
- 9:30 2. Ligands, Receptor Models and Evolution
Victor Cockcroft, Ph.D., ARCS
Department of Molecular Modelling
MRC Centre for Protein Engineering
Cambridge, United Kingdom
- 10:00 3. Molecular Organization-Efficacy,
Agonists and Antagonists
Victor J. Hruby, Ph.D.
Department of Chemistry
The University of Arizona
Tucson, Arizona

10:30 AM-11:00 AM Intermission

11:00 AM-12:30 PM Session II

Nicotinic Receptor Structure and Function I

Session Chair:

Jean-Charles Schwartz, Ph.D.
Institut National de la Santé et
de la Recherche Médicale
Unité de Neurobiologie et Pharmacologie
Centre Paul Broca de L'Inserm
Paris, France

- 11:00 4. CNS Nicotinic Receptors and Cholinergic
Neurotransmission

Paul B.S. Clarke, Ph.D.
Department of Pharmacology and Therapeutics
McGill University
Montreal, Quebec, Canada

- 11:30 5. Diversity of Primary Structure and Function of
Neuronal AcCh Receptors

Lorna W. Role, Ph.D.
Center for Neurobiology and Behavior
Columbia University
College of Physicians & Surgeons
New York, New York

- 12:00 6. Correlation of Molecular Structure and Function

Bianca M. Conti-Tronconi, M.D.
Department of Biochemistry
University of Minnesota
St. Paul, Minnesota

12:30 PM-2:00 PM Luncheon
Regency C/D-Ballroom Level

2:00 PM-4:00 PM Session III

Nicotinic Receptor Structure and Function II

Session Chair:

Bianca Conti-Tronconi, M.D.
Department of Biochemistry
University of Minnesota
St. Paul, Minnesota

- 2:00 7. Neurotoxins as Structural and Functional Probes of Nicotinic Receptors

Edward Hawrot, Ph.D.
Section of Molecular and Biochemical Pharmacology
Brown University
Providence, Rhode Island

- 2:30 8. Molecular and Functional Properties of the Neuronal Nicotinic Acetylcholine Receptor

Edson X. Albuquerque, M.D., Ph.D.
Department of Pharmacology and Experimental Therapeutics
University of Maryland School of Medicine
Baltimore, Maryland

- 3:00 9. Heterogeneity of Presynaptic ACh Receptors

E. Sylvester Vizi, M.D.
Department of Pharmacology
Institute of Experimental Medicine
Budapest, Hungary

- 3:30 10. Chemical Kinetic Measurements in the μ s-ms Time Region of Diverse Neurotransmitter Receptors

George P. Hess, Ph.D.

*Department of Biochemistry, Molecular and Cell Biology
Cornell University
Ithaca, New York*

4:00 PM-4:30 PM **Intermission**

4:30 PM-6:00 PM **Session IV**

Cholinergic Pathways and Receptor Regulation

Session Chair:

E. Sylvester Vizi, M.D.

*Department of Pharmacology
Institute of Experimental Medicine
Budapest, Hungary*

- 4:30 11. Human Brain Cholinergic Pathways

M-Marsel Mesulam, M.D.

*Department of Neurology
Harvard Medical School;
Division of Neuroscience and Behavioral Neurology
Beth Israel Hospital
Boston, Massachusetts*

- 5:00 12. Regulation of Muscarinic Acetylcholine Expression and Function

Neil M. Nathanson, Ph.D.

*Department of Pharmacology
University of Washington
Seattle, Washington*

- 5:30 13. Diversity and Patterns of Regulation of Nicotinic Receptor Subtypes

Ronald J. Lukas, Ph.D.

*Division of Neurobiology
Barrow Neurological Institute
Phoenix, Arizona*

6:00 PM-7:30 PM **Poster Session/Cash Bar**

Poster Presenters will be available for discussion of posters at this time.

Friday
May 27, 1994

8:00 AM-6:00 PM Registration
Regency Foyer-Ballroom Level

Each paper includes 20 minutes for presentation followed by
10 minutes for discussion.

8:30 AM-10:30 AM Session V

**Nicotinic Receptors and Interactions with other
Receptor Pathways**

Session Chair:

*Leo Abood, Ph.D.
Conference Chair*

8:30 14. nACh Receptor Subtypes

*Jon M. Lindstrom, Ph.D.
Department of Neuroscience
University of Pennsylvania
Medical Center
Philadelphia, Pennsylvania*

9:00 15. Nicotinic Amino Acidergic Interactions

*Abel Lajtha, Ph.D.
Conference Chair*

**9:30 16. Phosphorylation of the Nicotinic Acetylcholine
Receptor by Protein Tyrosine Kinase**

*Sheridan L. Swope, Ph.D.
Department of Neuroscience
The Johns Hopkins University
School of Medicine
Baltimore, Maryland*

**10:00 17. Cholinergic Receptor Regulation of
Mesotelencephalic Dopamine Neurons**

*Hans C. Fibiger, Ph.D.
Department of Neurological Sciences
University of British Columbia
Vancouver, B.C., Canada*

10:30 AM-11:00 AM Intermission

11:00 AM-12:00 Noon Session VI

Aminergic Receptor Heterogeneity

Session Chair:

Carl W. Cotman, Ph.D.
*Department of Psychobiology
University of California, Irvine
Irvine, California*

- 11:00 18. β -Adrenergic Subtypes: The Biotechnology of G-Protein Coupled Receptors**

Arthur D. Strosberg, Ph.D.
*Institut Cochin De Genetique Moleculaire
CNRS UPR-0415, L'Inserm
Immuno-Pharmacologie Moleculaire
Paris, France*

- 11:30 19. Molecular and Functional Heterogeneity of Receptors for Serotonin**

Mark Voigt, Ph.D.
*Department of Pharmacology
University College Dublin
Dublin, Ireland*

12:00 Noon-1:30 PM Luncheon

Regency C/D-Ballroom Level

1:30 PM-3:00 PM Session VII

Aminergic Receptor Interactions

Session Chair:

Arthur D. Strosberg, Ph.D.
*Institut Cochin De Genetique Moleculaire
CNRS UPR-0415, L'Inserm
Immuno-Pharmacologie Moleculaire
Paris, France*

- 1:30 20. Interactions of Neurotensin with Central Dopamine Neurons: Neurochemical and Electrophysiological Evidence**

Charles B. Nemeroff, M.D., Ph.D.
*Department of Psychiatry and Behavioral Sciences
Emory University School of Medicine
Atlanta, Georgia*

- 2:00 21. Denervation, Hyperinnervation and Interactive Regulation of Dopamine and Serotonin Receptors

Tomás A. Reader, M.D., Ph.D.
Université de Montréal
Faculté de Médecine
Montréal, Québec, Canada

- 2:30 22. Molecular and Functional Diversity of Histamine Receptor Subtypes

Jean-Charles Schwartz, Ph.D.
Institut National de la Santé et
de la Recherche Médicale
Unité de Neurobiologie et Pharmacologie
Centre Paul Broca de l'Inserm
Paris, France

3:00 PM-3:30 PM **Intermission**

3:30 PM-6:00 PM **Session VIII**

Receptor Interactions of Therapeutic Interest

Session Chair:

Stephen R. Zukin, M.D.
Departments of Psychiatry and Neuroscience
Albert Einstein College of Medicine of
Yeshiva University
Bronx, New York

- 3:30 23. Polyamines as Endogenous Modulators of NMDA Receptor and other Ligand-Gated Ion Channels

Edythe D. London, Ph.D.
Addiction Research Center
National Institute on Drug Abuse
National Institutes of Health
Baltimore, Maryland

- 4:00 24. Novel Dopamine Receptor Subtypes as Targets for Antipsychotics

Pierre Sokoloff, Ph.D.
Institut National de la Santé et
de la Recherche Médicale
Unité de Neurobiologie et Pharmacologie
Centre Paul Broca de l'Inserm
Paris, France

- 4:30 25. Multiple Receptors of Substance P
Susan E. Leeman, Ph.D.
Department of Pharmacology
Boston University School of Medicine
Boston, Massachusetts
- 5:00 26. Receptor-Receptor Interactions and their Relevance for Receptor Diversity:
Focus on Neuropeptide-Dopamine Interactions
Kjell Fuxe, M.D., Ph.D.
Department of Histology and Neurobiology
Karolinska Institutet
Stockholm, Sweden
- 5:30 27. Peptide Receptor Changes After Chronic Exposure to Agonists
James E. Zadina, Ph.D.
Research Department
Department of Veterans Affairs Medical Center
New Orleans, Louisiana

6:00 PM-7:00 PM Poster Session/Cash Bar
Poster Presenters will be available for discussion of posters at this time.

7:00 PM-9:30 PM Subscription Banquet @ \$65 per person
Yorktown-Ballroom Level
Refer to the Conference Registration Form in the back of the program for payment details.

Banquet Speaker

Solomon H. Snyder, M.D.
Department of Neuroscience
Johns Hopkins University
School of Medicine
Baltimore, Maryland

"Receptors and Transmitters: Perspective of an Old Warrior"

Saturday
May 28, 1994

8:00 AM-6:00 PM Registration

Regency Foyer-Ballroom Level

Each paper includes 20 minutes for presentation followed by 10 minutes for discussion.

8:30 AM-10:30 AM Session IX

Opioid and Melanocortin Receptors

Session Chair:

Victor J. Hruby, Ph.D.

*Department of Chemistry
The University of Arizona
Tucson, Arizona*

8:30 28. Distribution of Neuropeptide Receptors

Tomas Hökfelt, M.D.

*Department of Histology and Neurobiology
Karolinska Institute
Stockholm, Sweden*

**9:00 29. Characterization of Opioid Receptor Types
and Subtypes with New Ligands**

Anna Borsodi, Ph.D.

*Institute of Biochemistry
Biological Research Center
Hungarian Academy of Sciences
Szeged, Hungary*

9:30 30. Opioid Receptor Subtypes and Addiction

Gavril W. Pasternak, M.D., Ph.D.

*Department of Neurology
Memorial Sloan-Kettering Cancer Center
New York, New York*

**10:00 31. Molecular Genetics of the Melanocortin
Receptors**

Roger D. Cone, Ph.D.

*Vollum Institute
Oregon Health Sciences University
Portland, Oregon*

10:30 AM-10:50 AM Intermission

10:50 AM-12:30 PM Session X

Excitatory Amino Acid Receptors I

Session Chair:

Eric A. Barnard, Ph.D., FRS
Molecular Neurobiology Unit
Division of Basic Medical Sciences
Royal Free Hospital School of Medicine
London, United Kingdom

- 10:50 32. EAA Receptor Functions in Health and in
Neurological Diseases

Brian S. Meldrum, Ph.D.
Department of Neurology
Institute of Psychiatry
University of London
London, United Kingdom

- 11:20 33. Glutamate Receptors Modulation of
Neurotransmitter Release

Arsélio P. Carvalho, Ph.D.
Department of Zoology
Neurosciences Center
University of Coimbra
Coimbra, Portugal

- 11:50 34. The Role of Glutamate and Glutamate
Receptors in Memory Function and
Alzheimer's Disease

Frode Fonnun, D.Phil.
Division for Environmental Toxicology
Norwegian Defence Research Establishment
Kjeller, Norway

12:20 PM-1:30 PM Lunch Break

Lunch on Own

1:30 PM-3:30 PM Session XI

Excitatory Amino Acid Receptors II

Session Chair:

Brian S. Meldrum, Ph.D.

*Department of Neurology
Institute of Psychiatry
University of London
London, United Kingdom*

- 1:30 35. Roles of Metabotropic Receptors in Brain Plasticity

Carl W. Cotman, Ph.D.
*Department of Psychobiology
University of California, Irvine
Irvine, California*

- 2:00 36. EAA Receptor Function and Regulation in Psychiatric Diseases

Stephen R. Zukin, M.D.
*Departments of Psychiatry and Neuroscience
Albert Einstein College of Medicine of Yeshiva University
Bronx, New York*

- 2:30 37. EAA Metabotropic Receptor Subtypes and Calcium Regulation

Max Récasens, Ph.D.
*INSERM U 254
Hopital St. Charles
Montpellier, France*

- 3:00 38. Subtypes of EAA Receptors and Their Interactions

Maurizio Raiteri, Ph.D.
*Istituto di Farmacologia e Farmacognosia
Genova, Italy*

3:30 PM-4:00 PM **Intermission**

4:00 PM-6:00 PM Session XII

GABA Receptors

Session Chair:

Frode Fonnum, D.Phil.

*Division for Environmental Toxicology
Norwegian Defence Research Establishment
Kjeller, Norway.*

- 4:00 39. Structure/Function Relationships in the Multiple GABA_A Receptors**

Eric A. Barnard, Ph.D., FRS

*Molecular Neurobiology Unit
Division of Basic Medical Sciences
Royal Free Hospital School of Medicine
London, United Kingdom*

- 4:30 40. Structure and Distribution of the Multiple GABA_A Receptor Subunits**

William Wisden, Ph.D.

*Department of Neurobiology, LMB
MRC Center
Cambridge, United Kingdom*

- 5:00 41. Structure and Function of GABA_B Receptors**

Kinya Kuriyama, M.D., Ph.D.

*Department of Pharmacology
Kyoto Prefectural University of Medicine
Kyoto, Japan*

- 5:30 42. Partial Allosteric Modulators of GABA Action at GABA_A Receptors**

Alessandro Guidotti, M.D.

*Fidia-Georgetown-Institute for the Neurosciences
Georgetown University
Washington, D.C.*

Adjournment

SPEAKERS

Abood, L., 1
Albuquerque, E.X., 8
Barnard, E.A., 39
Borsodi, A., 29
Carvalho, A.P., 33
Clarke, P.B.S., 4
Cockcroft, V., 2
Cone, R.D., 31
Conti-Tronconi, B., 6
Cotman, C.W., 35
Fibiger, H.C., 17
Fonnum, F., 34
Fuxe, K., 26
Guidotti, A., 42
Hawrot, E., 7
Hess, G.P., 10
Hölkfelt, T., 28
Hruby, V.J., 3
Kuriyama, K., 41
Lajtha, A., 15
Leeman, S.E., 25
Lindstrom, J.M., 14
London, E.D., 23
Lukas, R.J., 13
Meldrum, B.S., 32
Mesulam, M-M., 11
Nathanson, N.M., 12
Nemeroff, C.B., 20
Pasternak, G.W., 30
Raiteri, M., 38
Reader, T.A., 21
Récasens, M., 37
Role, L.W., 5
Schwartz, J-C., 22
Snyder, S.H., *Banquet Speaker*
Sokoloff, P., 24
Strosberg, A.D., 18
Swope, S.L., 16
Vizi, E.S., 9
Voigt, M., 19
Wisden, W., 40
Zadina, J.E., 27
Zukin, S.R., 36

SESSION CHAIRS

Session I— Lajtha, A.
Session II— Schwartz, J-C.
Session III— Conti-Tronconi, B.
Session IV— Vizi, E.S.
Session V— Abood, L.
Session VI— Cotman, C.W.
Session VII— Strosberg, A.D.
Session VIII— Zukin, S.R.
Session IX— Hruby, V.J.
Session X— Barnard, E.A.
Session XI— Meldrum, B.S.
Session XII— Fonnum, F.

NOTES

REGISTRATION FEE INCLUDES

- Entrance to Scientific Sessions
- Entrance to Poster Sessions
- Conference Materials
- Continuing Medical Education Credits
- Welcome Wine and Cheese Reception (May 25)
- Conference Luncheons (May 26 and 27)*
- Coffee/Tea (During scheduled intermissions)

***Please Note:** Resident/Fellow, Student and Emeritus Member Registration Fees do not include the luncheons. If you register under any of these categories and wish to attend the luncheons, please indicate that by registering for the luncheons separately on the conference registration form.

SUBSCRIPTION BANQUET

A separate subscription fee of \$65 is required for the Friday, May 27 Banquet. For payment details, please refer to the Conference Registration Form, which follows. Payment is required prior to the meeting, by Monday, May 9.

CONFERENCE REGISTRATION REFUNDS

Written requests for refunds postmarked by April 22, 1994 will be issued minus an administrative fee of \$25. Absolutely no refunds will be honored after this date.

SUBSCRIPTION BANQUET REFUNDS

Written requests for refunds postmarked by May 9, 1994 will be issued in full. Absolutely no refunds will be honored after this date.

REGISTRATION HOURS

The conference registration desk will be open on Wednesday, May 25 from 6:30 PM to 8:30 PM in the Regency Ballroom Foyer on the Ballroom Level. Please check in at this desk to pick up your registration materials. The conference registration desk will re-open on Thursday, May 26 at 7:30 AM and will remain open for the duration of the Conference.

MEMBERSHIP IN THE NEW YORK ACADEMY OF SCIENCES

As a participant in this conference, you will be offered the opportunity to become a member of The New York Academy of Sciences. The Academy links nearly 40,000 scientists and others across the United States and in 137 countries worldwide, representing all fields of science, engineering and medicine. The Academy aims to advance science and science education, the dissemination of scientific information, the human rights of scientists, the understanding and discussion of issues in science and technology policy, and the opportunities for women and minority groups in science.

Academy members enjoy a number of direct benefits, including:

- Reduced registration fees for about twenty major Academy conferences each year.
- One free volume of the *Annals of The New York Academy of Sciences* each year, and additional volumes at nominal prices.
- A subscription to the Academy's award-winning bimonthly magazine, *The Sciences*.
- The opportunity to participate in the activities of any and all of the Academy's twenty-five scientific sections.

For further information about Academy membership, please inquire at the conference registration desk or call (212) 838-0230, extension 346 or (800) 843-6927, extension 346.

CONFERENCE REGISTRATION FORM

Functional Diversity of Interacting Receptors

May 25-28, 1994

Return this form with your full payment to:

The Conference Department
The New York Academy of Sciences
2 East 63rd Street
New York, New York 10021
Telephone (212) 838-0230 x 324 Fax (212) 838-5640

Please type or print (legibly) all information.

First Name _____ Last Name _____

Degree(s) _____

Affiliation _____

Mailing Address _____

City _____ State _____ Country _____ Zip _____

Telephone Number _____ Fax Number _____

CONFERENCE REGISTRATION FEES—Check (✓) correct category and fee. Conference Registration is waived for **Speakers and Session Chairs only**. Poster Presenters pay full registration fees.

Conference Registration Postmarked:	Before <u>4/22</u>	After <u>4/22</u>	Enclosed
— NYAS Member Membership No. _____	\$320	\$345	\$_____
— Nonmember	\$415	\$440	\$_____
— Resident/Fellow*	\$215	\$215	\$_____
— Student or Emeritus Member*	\$150	\$150	\$_____
— Daily Registration Date(s) _____	\$150	\$150	\$_____
— Lunch May 26*	\$ 35	\$ 35	\$_____
— Lunch May 27*	\$ 32	\$ 32	\$_____
— Subscription Banquet 5/27†	\$ 65	\$ 65	\$_____

TOTAL FEE ENCLOSED

*You need to register for the May 26 and 27 luncheons **only** if you are paying the Resident/Fellow, Student or Emeritus Member Fees.

†The Friday, May 27 Banquet is by **separate subscription**. If you wish to attend the banquet, please enclose the fee with your conference registration. **Payment is required prior to the meeting by Monday, May 9.**

FDN:

-over-

23

ADDITIONAL REGISTRATION INFORMATION:

Students must have their department chair sign this form to qualify for the student registration fee.

Signature

Department and Title

REGISTRATION REFUNDS

Written requests for refunds postmarked by **April 22, 1994** will be issued minus an administrative fee of \$25.00. Absolutely no refunds will be honored after this date.

SUBSCRIPTION BANQUET REFUNDS

Written requests for refunds postmarked by **May 9, 1994** will be issued in full. Absolutely no refunds will be honored after this date.

METHOD OF PAYMENT:

U.S. Bank Check or International Money Order made payable to:
The New York Academy of Sciences

Amount Enclosed \$_____

or

Credit Card (Please complete all information)

MasterCard VISA American Express

Card Number

Expiration Date

Name of Cardholder (Please Print)

Cardholder Signature

How did you learn of this meeting?

NYAS Conference Schedule

Conference Flyer

From a Colleague

Advertisement in (please specify) _____

Other (please specify) _____

HOTEL RESERVATION FORM

Reservations must be received by April 22, 1994.

Mail directly to:

Reservations Manager
Hyatt Regency Washington on Capitol Hill
400 New Jersey Avenue, NW
Washington, D.C. 20001
Telephone (202) 737-1234 (800) 233-1234
Hotel Fax (202) 737-5773

THE NEW YORK ACADEMY OF SCIENCES

Functional Diversity of Interacting Receptors
May 25-28, 1994

Please type or print (legibly) all information.

First Name _____ Last Name _____

Sharing With (Provide Name) _____

Mailing Address _____

City _____ State _____ Country _____ Zip Code _____

Telephone Number _____ Fax Number _____

Special group rates are available for the nights of May 25, 26, and 27.
A limited number of rooms are available on a first reserved basis at the
group rate for the night of May 28.

Please send only 1 form per room.

Arrival Date _____ Departure Date _____

Number of people in the room _____

Request separate room bills? _____ Yes _____ No _____

\$120 _____ Single (1 person)

\$120 _____ Double (2 persons/1 bed)

\$120 _____ Double/Double (2 persons/2 beds)

\$ 25 _____ Per Extra Person in Room

Rates are subject to the prevailing city and local occupancy taxes
currently at 11% and \$1.50 per room per night occupancy tax.

-over-

Complete the following if applicable:

Confirmation Requested _____

CHECK-IN TIME: 3:00 PM

CHECK-OUT TIME: 12:00 Noon

RESERVATIONS RECEIVED AFTER APRIL 22, 1994 WILL BE ACCEPTED ON A SPACE AVAILABLE BASIS AND MAY BE SUBJECT TO A HIGHER RATE.

Reservations will be held until 4:00 PM unless accompanied by a deposit or an accepted credit card number and signature.

Please hold my reservation for:

_____ 4:00 PM arrival.

_____ Late arrival guaranteed by first night's deposit plus state and local occupancy taxes (11% + \$1.50).

Amount enclosed \$ _____

_____ Late arrival guaranteed by first night's deposit plus state and local occupancy taxes (11% + \$1.50) on my credit card
(American Express, Diner's Club, VISA, MasterCard,
Discover Card or Carte Blanche).

Credit Card Name _____

Credit Card Number _____

Expiration Date _____

Name of Cardholder (please print) _____

Cardholder Signature _____

GUARANTEED RESERVATIONS

I understand that I am liable for one night's room and tax, which will be deducted from my deposit or billed through my credit card in the event that I do not arrive by 4:00 PM on the arrival date indicated.

Signature _____

TENTATIVE CONFERENCE SCHEDULE

If you would like information about any of the conferences below, please circle the names of the conferences and return this page to The New York Academy of Sciences with your name and address on the reverse side. Program and registration information will be mailed approximately three months before each conference. You need not register for the conference to request information.

BRAIN CORTICOSTEROID RECEPTORS: STUDIES ON MECHANISM, FUNCTION AND NEUROTOXICITY OF CORTICOSTEROID ACTION

MARCH 2-5, 1994. CRYSTAL GATEWAY MARRIOTT.
ARLINGTON, VIRGINIA

Chairs: E.R. de Kloet, Leiden Amsterdam Center for Drug Research, The Netherlands; Efrain C. Azmitia, New York University; Philip W. Landfield, University of Kentucky

T-CELL RECEPTOR USE IN HUMAN AUTOIMMUNE DISEASES

APRIL 18-21, 1994. DOUBLETREE HOTEL AT HORTON PLAZA.
SAN DIEGO, CALIFORNIA

Chairs: Joel Buxbaum, New York University School of Medicine; Mark M. Davis, Howard Hughes Medical Institute, Stanford University

THE POST-POLIO SYNDROME: ADVANCES IN THE PATHOGENESIS AND TREATMENT

APRIL 27-30, 1994. HYATT REGENCY BETHESDA.
BETHESDA, MARYLAND

Chairs: Marinos C. Dalakas, The National Institutes of Neurological Disorders and Stroke-NIH; Harry Bartfeld, St. Vincent's Hospital and Medical Center; Leonard T. Kurland, Mayo Clinic, Mayo Medical School

INTERLEUKIN-6-TYPE CYTOKINES

JUNE 19-22, 1994. SCIENCE CENTER, THE POLISH ACADEMY OF SCIENCES, POZNAN, POLAND

Chairs: Andrzej Mackiewicz, Great Poland Cancer Center, Poland; Alex Koj, Jagiellonian University, Poland; Pravan Sehgal, New York Medical College

FUNDAMENTAL PROBLEMS OF QUANTUM THEORY

JUNE 19-22, 1994. UNIVERSITY OF MARYLAND BALTIMORE COUNTY, BALTIMORE, MARYLAND

Chair: Daniel Greenberger, City College of CUNY

IMMUNOGLOBULIN GENE EXPRESSION IN DEVELOPMENT AND DISEASE

JULY 13-17, 1994. THE FOUR SEASONS, MONTREAL, CANADA
Chairs: Paolo Casali and Leslie Silberstein